

HORIZONTAL WIND GENERATOR

ABSTRACT OF THE DISCLOSURE

A horizontal wind generator comprises a horizontal windmill drivingly coupled to an electrical generator. The windmill includes a vertical drive shaft mounted for rotation in a base, with a plurality of wind drive units being mounted in wind catching positions at spaced axial locations along the drive shaft. The drive units comprise oppositely facing wind catching elements mounted on opposite sides of crossbars or frames non-rotatably attached to the pole. Multiple wind drive units are spaced along the pole and angularly displaced from adjacent units at regular intervals around the pole. Two or four spaced drive units are particularly desirable. Wind catcher elements formed of cup shaped bowls or split barrels are particularly effective and are inexpensive. The wind generator is drivingly attached to an electrical generator through a gear box and belt or chain drive mechanism. The horizontal windmill rotates the electrical generator within its desired speed range without any governor or speed control.